SIMPLE INTEREST

AIM:

To write a C Program to calculate Simple Interest.

ALGORITHM:

```
STEP 1: Start the program. 
STEP 2: Input the values of Principle amount(p), number of Years(n), rate of Interest(r). 
STEP 3: Calculate the simple interest using the formula(si) si = (p*n*r)/100 
STEP 4: Print the calculated value as Simple Interest. 
STEP 5: Stop the program.
```

PROGRAM FOR SIMPLE INTEREST CALCULATION

```
#include < stdio.h >
#include < conio.h >
void main()
{
float p,n,r;
float si;
clrscr();
printf("Enter the value of Principle Amount :\n");
scanf("%f",&p);
printf("Enter the number of Years :\n");
scanf("%f",&n);
printf("Enter the rate of Interest :\n");
scanf("%f",&r);
si = (p*n*r)/100;
printf("Simple Interest value is :%f",si);
getch();
}
```

OUTPUT:

Enter the value of Principle Amount: 5000

Enter the number of Years: 3 Enter the rate of Interest: 9

Simple Interest value is: 1350.000000

REVERSE A NUMBER

AIM:

To write a C Program to reverse five digit numbers.

ALGORITHM:

```
STEP 1: Start the program
STEP 2: Initialize reverse=0.
STEP 3: Read digit
STEP 4: Check whether digit>0 then go to step 5
else go to step 9
STEP 5: reverse=reverse*10
STEP 6: reverse=reverse+digit%10
STEP 7: digit=digit/10
STEP 8: Go to step 4
STEP 9: Print reverse
STEP 10: Stop
```

PROGRAM TO REVERSE A NUMBER

```
#include < stdio.h >
#include < conio.h >
void main()
{
  int reverse = 0, num, rem;
  clrscr();
  printf("Enter the number:\n");
  scanf("%d", & num);
  while(num > 0)
  {
    rem = num%10;
    reverse = (reverse * 10) + rem;
    num = num/10;
  }
  printf("Reverse number = %d\n", reverse);
  getch();
  }
```

OUTPUT:

Enter the number: 7539 Reverse number= 9357

INCOME TAX CALCULATION USING NESTED IF

AIM:

To write a C Program to calculate Income tax using nested If.

ALGORITHM:

STEP 1: Start the program. STEP 2: Read the value of income. STEP 3: Check if value<=22000 Yes: Assign tax=0 No: Go to step 4 STEP 4: Check if value<=30000 Yes: Assign tax=(income-22000)*0.20 No: Go to step 5 STEP 5: Check if value<=50000 Yes: Assign tax=(income-30000)*0.30 No: Go to step 6 STEP 6: Check if value<=100000 Yes: Assign tax=(income-50000)*0.40 No: Go to step 7 STEP 7: else Assign tax=(income-100000)*0.50 STEP 8: Print the value of income STEP 9: Stop

PROGRAM FOR NESTED IF

```
#include<stdio.h>
#include < conio.h >
main()
float income,tax;
printf("Enter the basic income:\n");
scanf("%f",&income);
if(income<=22000)
tax=0;
else if(income <= 30000)
tax=(income-22000)*0.20:
else if(income <= 50000)
tax=(income-30000)*0.30;
else if(income<=100000)</pre>
tax=(income-50000)*0.40;
else
tax=(income-100000)*0.50;
```

```
printf("Tax amount %8.2f",tax);
getch();
}
```

Enter the basic income: 35000

Tax amount: 1500

PRIME NUMBER CHECKING

AIM:

To write a C Program to check prime numbers.

ALGORITHM:

PRIME NUMBER CHECKING

```
#include < stdio.h >
#include < conio.h >
main()
{
    int n,c;
    printf("Enter a number to check if it is prime \n");
    scanf("%d",&n);
    for(c=2;c<=n-1;c++)
    {
        if(n%c==0)
        {
            printf("%d is not prime \n",n);
            break;
        }
        if(c == n)
        {
            printf("%d is prime \n",n);
        }
        getch();
     }
}</pre>
```

OUTPUT:

Enter a number to check if it is prime 11 11 is prime

RESULT:

Ex No: Date:

SUM OF DIGITS

AIM:

To write a C Program for calculate sum of digits.

ALGORITHM:

```
STEP 1: Start the program.

STEP 2: Read the value of num.

STEP 3: Repeat the step 4 and 5 until num>0

STEP 4: Calculate
    rem=num%10;
    sum=sum+rem;
    num=num/10;

STEP 5: Print the sum value

STEP 6: Stop the program
```

PROGRAM FOR SUM OF DIGITS

```
#include < stdio.h >
#include < conio.h >
void main()
{
  int rem, sum = 0, num;
  clrscr();
  printf("Enter any number: \n");
  scanf("%d", & num);
  while(num > 0)
  {
  rem = num%10;
  sum = sum + rem;
  num = num/10;
  }
  printf("The sum of digits is %d", sum);
  getch();
  }
```

OUTPUT:

Enter any number: 123 The sum of digits is 6

QUADRATIC EQUATION

AIM:

To write a C Program to find the roots of a Quadratic equation.

ALGORITHM:

```
STEP 1:Start.

STEP 2:Read a, b, c values.

STEP 3: Compute d = (b*b)-(4*a*c)

STEP 4: if d > 0 then, x = b+sqrt(d)/(2*a), y = b-sqrt(d)/(2*a)

STEP 5: Otherwise if d = 0 then, compute x = -b/2a, y = -b/2a.

STEP 6: print x and y values.

STEP 6: Otherwise if d < 0 then print roots are imaginary.

STEP 7: Stop
```

PROGRAM FOR QUADRATIC EQUATION

```
#include<stdio.h>
#include < conio.h >
#include<math.h>
void main()
int a,b,c;
float d,x,y;
printf("\n\t\t\ quadratic equation\n");
printf("\n\t\tEnter the value of a:");
scanf("%d",&a);
printf("\n\t\tEnter the value of b:");
scanf("%d",&b);
printf("\n\t\t Enter the value of c:");
scanf("%d",&c);
d=(b*b)-(4*a*c);
if(d>0)
x = (-b + sqrt(d))/(2*a);
y=(-b-sqrt(d))/(2*a);
printf("\n\t\t\t roots are real and unequal");
printf("\n\t\t\ value of x:\%f",x);
printf("\n\t\t value of y:\%f",y);
```

```
else if(d==0) {
    x=(-b)/(2*a);
    y=(-b)/(2*a);
    printf("\n\t\t Roots are real and equal");
    printf("\n\t\t value of x:\%f",x);
    printf("\n\t\t value of y:\%f",y);
    }
    else {
    x=(-b)/(2*a);
    y=(sqrt(-d))/(2*a);
    printf("\n\t\t Roots are imaginary");
    printf("\n\t\t value of x:\%f",x);
    printf("\n\t\t value of y:\%f",y);
    }
    getch();
}
```

Enter the value of a: 1 Enter the value of b: 2 Enter the value of c: 1

Roots are real and equal value of x: -1.000000 value of y: -1.000000

SINE SERIES

AIM:

To write a C Program to find sine series.

ALGORITHM:

```
STEP 1: Start
STEP 2: x,n,i,j,s,f,k;
STEP 3: Enter x value
STEP 4: Read x
STEP 5: Repeat steps 6 to 11 for(i=1.0 to i<=n)
STEP 6: Set j=1.0
STEP 7: Repeat steps 8 while(j<=i)
STEP 8: Set f=f*j;j=j+1;
STEP 9: Repeat steps 10 while(k<=i)
STEP 10: Set k=k*(-1.0);
STEP 11: set s=s+(pow(x,i)/f)*k;
STEP 12: Display sine series
STEP 13: Stop
```

PROGRAM FOR SINE SERIES

```
#include < stdio.h >
#include < math.h >
#include < conio.h >
main()
{
float x,n,i,j,k,f,s;
clrscr();
printf("\n\t\t\t Sum of sine series");
printf("\n\t\t\t Enter x value:");
scanf("%f",&x);
printf("\n\t\t\t Enter n value:");
scanf("%f",&n);
s=0.0;
f=1.0;
k=1.0;
```

```
for(i=1.0;i <= n; i=i+2) { for(j=1.0;j <= i; j++) { f=f*j; } s=s+(pow(x,i)/f)*k; k=k*(-1.0); } printf("\n\t\t\ value\ of\ x=\ \%f",x); printf("\n\t\t\ value\ of\ y=\%f",n); printf("\n\t\t\ Sine\ series=\mbox{\%}f",s); getch(); }
```

Sum of sine series Enter x value: 2 Enter n value: 3

value of x=2.000000 value of y=3.000000 Sine series=0.666667

COSINE SERIES

AIM:

To write a C Program to find cosine series.

ALGORITHM:

```
STEP 1: Start
STEP 2: x,n,i,j,s=0.0,f=1.0,k=1.0;
STEP 3: Enter x value
STEP 4: Read x
STEP 5: Repeat steps 6 to 11 for(i=1.0 to i<=n)
STEP 6: Set j=1.0
STEP 7: Repeat steps 8 while(j<=i)
STEP 8: Set f=f*j;j=j+1;
STEP 9: Repeat steps 10 while(k<=i)
STEP 10: Set k=k*(-1.0);
STEP 11: set s=s+(pow(x,i)/f)*k;
STEP 12: Display cosine series
STEP 13: Stop
```

PROGRAM FOR COSINE SERIES

```
#include < stdio.h >
#include < conio.h >
#include < math.h >
void main()
{
float x,n,i,j,k=1.0,f=1.0,s=0.0;
clrscr();
printf("\n\t\t\t Sum of cosine series");
printf("\n\t\t\t Enter x value:");
scanf("%f",&x);
printf("\n\t\t\t Enter n value:");
scanf("%f",&n);
```

```
s=0.0;
f=1.0;
k=1.0;
for(i=0;i <= n; i=i+2)
\{
for(j=1.0;j <= 1; j++)
\{
f=f*j;
\}
s=s+(pow(x,i)/f)*k;
k=k*(-1);
\}
printf("\n\t\t\ value\ of\ x=\%f",x);
printf("\n\t\t\ value\ of\ cosine\ series=\%f",s);
getch();
\}
```

Sum of cosine series

Enter x value: 1 Enter n value: 4

value of x: 1.000000 value of y: 4.000000

value of cosine series=1.000000

EXPONENTIAL SERIES

AIM:

To write a C program for Exponential Series.

ALGORITHM:

```
Step 1: Start the program
Step 2: Read x
Step 3: Read n
Step 4: Initializing i=1.0,j=1.0
Step 5: Testing i<=n, j<=i
Step 6: Increment i++, j++
Step 7: f=f*j
Step 8: print s
Step 9: Stop the program
```

PROGRAM FOR EXPONENTIAL SERIES

```
#include<stdio.h>
#include < conio.h >
#include<math.h>
void main()
{
float x,n,i,j,k,f,s;
clrscr();
printf("\n\t\t Sum of exponential series");
printf("\n\t\t\t Enter x value");
scanf("%f",&x);
printf("\n\t\t Enter n value");
scanf("%f",&n);
s=1.0;
f=1.0;
for(i=1.0;i <= n;i++)
for(j=1.0;j<=i;j++)
```

```
f=f*j;
}
s=s+(pow(x,i)/f);
}
printf("\n\t\t\t value of x=%f",x);
printf("\n\t\t\t value of y=%f",n);
printf("\n\t\t\t Exponential series=%f",s);
getch();
}
```

Enter x value 1
Enter n value 2
value of x=1.000000
value of y=2.000000
Exponential series=2.500000

PALINDROME CHECKING

AIM:

To write a C program for palindrome checking using string functions.

ALGORITHM:

Step 1: Start the program
Step 2: Read str1
Step 3: Assign str2 ← str1
Step 4: Check if strcmp (str1, str2)==0
(a) Yes: print given string is palindrome
(b) No: print given string is not palindrome
Step 5: Stop the program

PROGRAM FOR PALINDROME CHECKING

```
#include<stdio.h>
#include < conio.h >
#include<string.h>
void main()
char str1[20],str2[20];
clrscr();
printf("\n\t\t Enter the string:");
scanf("%s",&str1);
strcpy(str2,str1);
strrev(str1);
if(strcmp(str1,str2)==0)
printf("\n\t\t\t\t %s is a palindrome",str1);
else
printf("\n\t\t\t\" wis not a palindrome",str2);
getch();
}
```

Enter the string: madam madam is a palindrome

RESULT:

Ex.No: Date:

ASCENDING ORDER

AIM:

To write a C program for ascending order of numbers.

ALGORITHM:

```
Step 1: Start the program
Step 2: Read the value of n
Step 3: Read the value of a[i] using the loop
Step 4: Repeat the Step 5 and 6 for I varying from 0 to n
Step 5: Repeat the Step 6 for j varying from i+1 to n
Step 6: Check if a[i]>a[j]
(a) Yes: Assign t \leftarrow a[i],a[j] \leftarrow a[i],a[j] \leftarrow t
(b) No: go to Step 5
Step 7: print the value of a[i]
Step 8: Stop the program
```

ASCENDING ORDER

```
#include<stdio.h>
#include<conio.h>
void main();
{
  int I,j,a[5],t;
  clrscr();
  printf("Sorting of numbers");
  printf("\n\n Enter 5 numbers");
  for(i=0;i<5;i++)
  {
  scanf("%d",&a[i]);
  }
  for(i=0;i<5;i++)
  {</pre>
```

```
for(j=i+1;j<5;j++)
{
    if(a[i]>a[j])
    {
        t=a[i]
        a[i]=a[j];
        a[j]=t;
    }
    printf("\n Ascending order);
    for(j=0;j<5;j++)
    {
        printf("\n%d",a[j]);
        getch();
    }
}</pre>
```

Sorting of numbers

Enter 5 numbers

Ascending order

DESCENDING ORDER OF NUMBER

AIM:

To write a C program for descending order of numbers.

ALGORITHM:

```
Step 1: Start the program

Step 2: Read the value of n

Step 3: Read the value of number [i]using for loop

Step 4: Repeat the Step 5 & 6 for i varrying from 0 to n

Step 5: Read the Step 6 for j varrying from i+1 to n

Step 6: Check if numbers a[i]<a[j]

(a) Yes: Assign t ←a[i],a[j] ← a[j],a[i] ←t

(b) No: go to Step 5

Step 7: print the value of number[i]

Step 8: Stop the program
```

DESCENDING ORDER

```
#include < stdio.h >
#include < conio.h >
void main()
{
  int i,j,a[5],t;
  clrscr();
  printf("sorting of numbers");
  printf("\n\n Enter 5 numbers");
  printf("\n Enter numbers");
  for(i=0;i<5;i++)
{</pre>
```

```
scanf("%d", &a[i]);
for(i=0;i<5;i++)
for(j=i+1;j<5;j++)
if(a[i]<a[j])
t=a[i];
a[i]=a[j];
a[j]=t;
}
printf("\n Descending order");
for(i=0;i<5;i++)</pre>
printf("\n%d",a[i]);
getch();
}
OUTPUT:
sorting of numbers
Enter 5 numbers
56
18
23
2
8
Descending order
56
23
18
8
2
```

MATRIX ADDITION

AIM:

To write a C program for matrix addition using function.

ALGORITHM:

```
Step 1: Start the program
Step 2: Read row m and column n value for matrix I & II
Step 3: Read the values for Ist matrix a[i][j]
Step 4: Read the values for Iist matrid b[i][j]
Step 5: Calculate matrix addition
c[i][j]=a[i][j]+b[i][j] using for loop
Step 6: print the added matrix c[i][j]
Step 7: Stop the program
```

MATRIX ADDITION

```
#include < stdio.h >
#include < conio.h >
void main()
{
  int m,n,i,j,a[10][10],b[10][10],c[10][10]
  clrscr();
  printf("Enter row value for 1 matrix");
  scanf("%d",&m);
  printf("Enter column value for 1 matrix");
  scanf("%d",&n);
  printf("Enter the value of 1 matrix");
  for(i=-;i < m;i++)
  {
    for(j=0;j < n;j++)
    {
       scanf("%d",&a[i][j]);
    }
    }
}</pre>
```

```
printf("Enter value of 2 matrix");
for(i=0;i<m;i++)
for(j=o;j < n,j++)
scanf("%d", &b[i][j]);
for(i=0;i<m;i++)
for(j=0;j < n;j++)
c[i][j]=a[i][j]+b[i][j];
}
printf(``Matrix Addition \n"); for (i=0; i < m; i++)
for(j=0;j< n;j++)
printf("\t%d",c[i][j]);
printf("\n");
getch();
OUTPUT:
Enter row value for 1 matrix 2
Enter column value for 1 matrix 2
Enter value of 1 matrix2
2
2
2
Enter value of 2 matrix2
2
2
Matrix Addition
44
44
```

MATRIX SUBTRACTION

Ex no: Date:

AIM:

To write the C program for matrix subtraction using arrays.

ALGORITHM:

```
Step 1: Start the program
Step 2: Read row n & column n value for matrix I & II
Step 3: Read the value for Ist matrix a[i][j]
Step 4: Read the value for IInd matrix b[i][j]
Step 5: Calculate matrix subtracted
d[i][j]=a[i][j]-b[i][j]
Step 6: print the subtracted matrix d[i][j]
step 7: Stop the program.
```

MATRIX SUBTRACTION

```
#include<stdio.h>
#include < conio.h >
void main()
int m,n,i,j,a[10][10],b[10][10],d[10][10];
clrscr();
printf("Enter row value for 1 matrix");
scanf("%d",&m);
printf("Enter the column value of 1 matrix");
scanf("%d",&n);
printf("Enter value of 1 matrix");
for(i=0;i < m;i++)
for(j=0;j< n;j++)
scanf("%d",&a[i][j]);
printf("Enter value of 2 matrix");
for(i=0;i < m;i++)
for(j=0;j < n;j++)
scanf("%d",&b[i][j])
```

```
for(i=0;i \le m;i++)
for(j=0;j< n;j++)
d[i][j]=a[i][j]-b[i][j];
printf("Subtracted matrix \n");
for(i=0;i < m;i++){}
for(j=0;j< n;j++)
printf("\t%d", d[i][j]);
printf("\n");
}
getch()'
}
OUTPUT:
Enter the row value for 1 matrix 2
Enter the column vlaue for 1 matrix 2
Enter value of 1 matrix
2
2
2
2
Enter value of 2 matrix
2
2
2
2
Subtracted matrix
00
00
```

MATRIX MULTIPLICATON

Ex No: Date:

AIM:

To write C program for matrix multiplication using arrays.

ALGORITHM:

```
Step 1: Start the program
Step 2: Read row m & columnn n value for matrix I & II
Step 3: Read the value for Ist matrix a[i][j]
Step 4: Read the value for Iist matrix b[i][j]
Step 5: Calculate matrix multiplication
e[i][j]=e[i][j]+a[i][j]*b[*][j]
Step 6: print the multiplied matrix e[i][j]
Step 7: Stop the program.
```

MATRIX MULTIPICATON

```
#include<stdio.h>
#include < conio.h >
void main()
int m,n,k,a[10][10],b[10][10],e[10][10];
clrscr();
printf("Enter row value for 1 matrix")
scanf("%d", &m);
pritnf("Enter column value for 1 matrix");
scanf("%d", &n);
printf("Enter value of 1 matrix");
for(i=0;i,m;i++)
for (j=0; j < n; j++)
scanf("%d", &a[i][j]);
printf("Enter value of 2 matrix");
for(i=0;i < m;i++)
for(j=0;j < n;j++)
scanf("%d", &b[i][j]);
```

```
for(i=0;i<m;i++)
for(j=0;j < n;j++)
e[i][j]=0;
for(k=0;k \le m;k++)
e[i][j]=e[i][j]+a[i][j]*b[i][j];
Printf("Multiplied matrix \n");
for(i=0;i < m;i++)
for(j=0;j< n;j++)
printf("\t%d",e[i][j]);
printf("\n");
getch();
OUTPUT:
Enter row value for 1 matrix 2
Enter the column value for 1 matrix 2
Enter value of 1 matrix 2
2
2
2
2
Enter value fo 2 matrix 2
2
2
2
2
Multiplied matrix
88
88
```

FACTORIAL NUMBER USING RECURSIVE FUNCTION

AIM:

To write C program to find factorial using recursion.

ALGORITHM:

Step 1: Start the program
Step 2: Read the value of n

Step 3: Call fact () to find the fuction factorial using recursion

Step 4: print the factorial value written by the fact

Step 5: Stop the function.

FACTORIAL USING RECURSIVE FUNCTION

```
#include<stdio.h>
#include < conio.h >
#include<math.h>
int fact(int n);
void main()
int a,n;
clrscr();
printf("Finding factorial \n");
printf("Enter x value:");
scanf("%d",&n);
a = fact(n);
printf("\n\t Factorial value: %d\n",a);
getch();
int fact(int n)
if(n==1)
return(1);
}
else
return(n*fact(n-1));
}
```

Finding Factorial Enter x value: 3 Factorial Value: 6

RESULT:

Ex No: Date:

STRING LENGTH

AIM:

To write C program for finding string length.

ALGORITHM:

Step 1: Start the program

Step 2: Initialize count value to zero

Step 3: Check the condition for s[count] not equal to zero than increment count value

Step 4: Allocate memory for character string

Step 5: Get the value for string

Step 6: Find the length of string and print string value

Step 7: Stop the value.

STRING LENGTH WITHOUT USING STRLEN();

```
#include < stdio.h >
#include < conio.h >
int len(char*s)
{
  int count = 0;
  while(s[count]! = '\0')
{
    ++count;
}
return count;
}
void main()
{
  char*str=(char)malloc(1000*size of(char));
  clrscr();
  printf("Enter the string \n");
  gets(str);
  pritnf("\n Lenght of the string %d",len(str));
  getch();
}
```

OUTPUT:

Enter the string welcome Lenght of the string

RESULT:

Ex No: Date:

STRING COMPARISON

AIM:

To write a C program for finding string comparison.

ALGORITHM:

Step 1: Start the program
Step 2: Declare the variable, f, s and result
Step 3: Get the value for first string and second string
Step 4: Compare both values, if the result is equal to zero, print as strings are equal, else string not equal
Step 5: Stop the program.

PROGRAM FOR STRING COMPARISON

```
#include<stdio.h>
#include < conio.h >
int compare(char*,char*);
void main()
{
char f[1000];
char s[100], result;
clrscr();
printf("Enter the first string:\n");
gets(f);
printf("Enter the second string:\n");
gets(s);
result=compare(f,s);
if(result==0)
printf("\n Strings are same");
else
printf("\n Strings are not same");
getch();
int compare(char*f, char*s);
while(*f==s*)
if(*f = = '\0')|*s = = '\0')
```

```
break;
f++;
s++;
}
if(*f=='\0'&& *s=='/0')
return 0:
else
return 1;
}
```

Enter the first string welcome Enter the second string welcome Strings are same

STRING COPY

AIM:

To write a C program for finding string copy.

ALGORITHM:

Step 1: Start the program
Step 2: Declare the variables f, s and result
Step 3: Get the value of first string to copy
Step 4: Copy the value of first string to another string
Step 5: Stop the program.

PROGRAM FOR STRING COPY

```
#include<stdio.h>
#include < conio.h >
void copy(char*,char*);
void main()
{
char s[100];
char t[100];
clrscr();
printf("Enter the string to copy:\n");
gets(s);
copy(t,s);
printf("Copied string:%s",t);
getch();
void copy(char*t,char*s)
while(*s)
*t=*s;
s++;
t++;
*t='\0';
getch90;
```

OUTPUT:

Enter the string to copy: welcome copied string: welcome

STRING CONCATENATE

AIM:

To write a C program for finding string concatenation.

ALGORITHM:

```
Step 1: Start the program
Step 2: Initialize two strings
Step 3: Assign length to zero
Step 4: Check the condition s1[lenght] not equal to zero, then increment the value of length
Step 5: Repeat the following steps for j=0 and check the condition for s2[j] not equal to zero
Step 6: Assign the value of string 2 or string 1
Step 7: print the value of string 1 after concatenation
Step 8: Stop the program.
```

STRING CONCATENATION

```
#include<stdio.h>
#include < conio.h >
void main()
char s1[100] = "Welcome to", s2[] = "CS Department";
int length, j;
clrscr();
length = 0;
while (s1[lenght]!='\0')
{
++length;
for(j = 0; s2[j] = '\0'; ++j, ++lenght)
s1[lenght] = s2[j];
s1[lenght] = '\0';
printf("After concatenation:");
puts(s1);
getch();
```

OUTPUT:

Welcome to CS Department

RESULT:

Ex No: Date:

AIM:

To write a C program for student details using structures.

ALGORITHM:

```
Step 1: Start the program
Step 2: Assign eng,tam and major mark
Step 3: Assign 3 students details
Step 4: Print the 3 students eng and tam and major marks with correct order
Step 5: Calculate the total marks
Step 6: Assign total marks \rightarrow s[i]tam+s[i]eng+s[i]major
Step 7: Print the total marks
Step 8: Stop the program
```

PROGRAM FOR STUDENTS DETAIL USING STRUCTURES

```
#include<stdio.h>
#include < conio.h >
struct student
int eng;
int tam;
int major;
};
void main()
struct student s[3];
int i,total=0;
clrscr();
for(i=0;i<=2;i++)
printf("Enter marks for 3 students\n");
printf("Enter Eng marks\n");
scanf("%d",&s[i].eng);
printf("Enter Tam marks\n");
scanf("%d",&s[i].tam);
printf("Enter Major marks\n");
scanf("%d",&s[i].major);
total=s[i].eng+s[i].tam+s[i]major;
printf("Total marks to s[%d]student=%d",i,total);
getch();
}
OUTPUT:
Enter Major marks 95Total marks to s[0] students=218
Enter marks for 3 students:
```

Enter marks for 3 students: Enter Eng marks 56 Enter Tam marks 67

Enter Eng marks 78
Enter Tam marks 98
Enter Major marks 90
Total marks to s[1] students=266
Enter marks for 3 students:
Enter Eng marks 98
Enter Tam marks 87
Enter Major marks 67
Total marks to s[2] students=25